

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for the verification of anti-jamming in a communications system having several sensors or adaptive antennas, comprising the following steps :

estimating a mean power $[[\pi; \hat{y}]] \hat{\pi}_y$ of the output of the communications system,

estimating a respective power values P_u or $P'u$, of a station u , the antenna noise P_a or $P'a$, the thermal noise P_T , or $P'T$,

estimating at least one of the following ratios :

$$J_{tot}/S_{tot} = \left(\sum_{p=1}^P P_p \right) / \left(\sum_{u=1}^U P_u \right)$$

$$J_{tot}/S_{tot} = \left(\sum_{p=1}^P P_p \right) / \left(\sum_{u=1}^U P_u \right)$$

with p = the jamming unit

= sum of the power values of the residual jamming units/sum of the power values of the stations on the reception band B

$$J_{tot}/S_u = \left(\sum_{p=1}^P P_p \right) / P_u$$

$$J_{tot}/S_u = \left(\sum_{p=1}^P P_p \right) / P_u$$

= sum of the power values of the residual jamming units/power of the station u in the reception band B.

$$J_u/S_u = \left(\sum_{p=1}^P P_{pu} \right) / P_u$$

$$J_u/S_u = \left(\sum_{p=1}^P P_{pu} \right) / P_u$$

with P_{pu} = power of the jamming unit p in the reception band B_u .

and comparing at least one of the three ratios with a threshold value.

2. (Currently Amended) The method for the verification of anti-jamming according to claim 1, comprising a step for estimating the mean power $[[\pi_y^{\wedge}], \pi_y^{\wedge}]$ for an output from a number K of samples, $y(k)$, $1 \leq k \leq K$ of this output, given by

$$\pi_y^{\wedge} = \frac{1}{K} \sum_{k=1}^K |y(k)|^2$$

$$\pi_y^{\wedge} \triangleq \frac{1}{K} \sum_{k=1}^K |y(k)|^2$$

3. (Currently Amended) The method for the verification of anti-jamming according to claim 1, comprising a step of estimation $P_u^{\wedge}, P_u^{\wedge}$ of the power P_u, P_u in using, firstly, a priori knowledge of the parameters w and G_{num} for a digital application of the adaptive filters and $|\alpha|^2, w$ and G for an analog application of the filters and secondly the estimation of the parameters π_u and S_u .

4. (Currently Amended) The method for the verification of anti-jamming according to claim 1, comprising an estimation $P_u^{\wedge}, P_u^{\wedge}$ of the power P_u, P_u in using, firstly, a priori knowledge of the parameters w and G_{num} for a digital application of the adaptive filters

and $|\alpha|^2$, w and G for an analog application of the filters and secondly the estimation of the parameter η_a .

5. (Currently Amended) The method for the verification of anti-jamming according to claim 1, comprising a step of estimation $\frac{P_u^\Delta}{P_u^\Delta + P_a^\Delta + P_T^\Delta} \frac{\hat{P}_u}{\hat{P}_u}$ of the power P_u , P_u' in using a priori knowledge of the parameters w and G_{num} for a digital application of the adaptive filters and $|\alpha|^2$, w and G for an analog application of the filters and secondly the estimation of the parameter η_T .

6. (Currently Amended) The method for the verification of anti-jamming according to claim 1, comprising a step of estimation $\frac{J_{tot}^\Delta}{S_{tot}^\Delta} \frac{\hat{J}_{tot}}{\hat{S}_{tot}}$ of the ratio J_{tot}/S_{tot} given by

$$\frac{J_{tot}^\Delta}{S_{tot}^\Delta} = \frac{(\pi_y^\Delta - \sum_{u=1}^U \hat{P}_u - \hat{P}_a - \hat{P}_T) / (\sum_{u=1}^U \hat{P}_u)}{(\pi_y^\Delta - \sum_{u=1}^U \hat{P}_u - \hat{P}_a - \hat{P}_T) / (\sum_{u=1}^U \hat{P}_u)}$$

$$\frac{\hat{J}_{tot}}{\hat{S}_{tot}} = \frac{(\pi_y - \sum_{u=1}^U \hat{P}_u - \hat{P}_a - \hat{P}_T) / (\sum_{u=1}^U \hat{P}_u)}{(\pi_y - \sum_{u=1}^U \hat{P}_u - \hat{P}_a - \hat{P}_T) / (\sum_{u=1}^U \hat{P}_u)}$$

7. (Currently Amended) The method for the verification of anti-jamming according to claim 1, comprising a step of estimation $\frac{J_{tot}^\Delta}{S_u^\Delta} \frac{\hat{J}_{tot}}{\hat{S}_u}$ of the ratio J_{tot}/S_u , given by

$$\frac{J_{tot}^\Delta}{S_u^\Delta} = \frac{(\pi_y^\Delta - \sum_{u=1}^U \hat{P}_u - \hat{P}_a - \hat{P}_T) / (\sum_{u=1}^U \hat{P}_u)}{(\pi_y^\Delta - \sum_{u=1}^U \hat{P}_u - \hat{P}_a - \hat{P}_T) / (\sum_{u=1}^U \hat{P}_u)}$$

$$\frac{\hat{J}_{tot}}{\hat{S}_u} = \frac{(\pi_y - \sum_{u=1}^U \hat{P}_u - \hat{P}_a - \hat{P}_T) / (\sum_{u=1}^U \hat{P}_u)}{(\pi_y - \sum_{u=1}^U \hat{P}_u - \hat{P}_a - \hat{P}_T) / (\sum_{u=1}^U \hat{P}_u)}$$

8. (Currently Amended) The method of verification of anti-jamming according to claim 1, comprising a step of estimation \hat{J}/\hat{S}_u of the ratio J/S_u in using the total power of residual jamming units in the B_u band of the working station u given by

$$\hat{J}/\hat{S}_u = (\pi_{yu} - \sum_{v \neq u} \pi_{vu} - \pi_{au} - \pi_{Tu}) / \hat{P}$$

$$\hat{J}/\hat{S}_u = (\pi_{yu} - \hat{P}_u - \sum_{v \neq u} \hat{P}_{vu} - \hat{P}_{au} - \hat{P}_{Tu}) / \hat{P}$$

9. (Currently Amended) [[A]] The method of verification of anti-jamming according to claim 1 comprising a step of determination of the precision of estimation, and wherein this value is used to set the threshold.

10. (Canceled)

11. (Canceled)

12. (Previously Presented) A use of the method according to claim 1.

13. (Canceled)

14. (Canceled)